

ASSIGNMENT DECLARATION

WHEREAS, I/WE THUMPUDI NAVEEN residing at 1406 156th Avenue N.E., #1231, PP248
Redmond, Washington 98052; ANIL M. MURCHING residing at 930 S.W. 163rd Avenue,
#335, Beaverton, Oregon 97006; and ALI TABATABAI residing at 10495 S.W. 155th
Avenue, Beaverton, Oregon 97007, have invented certain new and useful improvements in
COARSE REPRESENTATION OF VISUAL OBJECT'S SHAPE FOR SEARCH/QUERY/
FILTERING APPLICATIONS

for which I/we:

- X have executed an application for Letters Patent of the United States of even date herewith;
- X have filed an application for Letters Patent of the United States on February 1, 1999 under Serial No. 60/118,386 ; and

Grass Valley (U.S.) Inc., (hereinafter called Assignee), a Delaware corporation whose address is 400 Providence Mine Road, Nevada City, California 95959 desires to acquire my/our entire right, title and interest in and to said improvements and said application;

For good and valuable consideration, the receipt and sufficiency of which is acknowledged, I/we hereby assign and transfer to Assignee my/our entire right, title and interest in and to said improvements throughout the world, and in and to said application, including any continuation(s) or division(s) thereof, and any Letters Patent or other protective right(s) that may be granted therefor in the United States and in any and all foreign countries, including the right to file in foreign countries applications for protection of said improvements claiming priority from said applications.

I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and corresponding officials in any and all foreign countries to issue said Letters Patent(s) or protective right(s) to Assignee as the assignee of my/our entire right, title and interest therein, for the sole use and benefit of Assignee.

I/We hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed, and will not execute, any agreement in conflict herewith.

I/We hereby agree to communicate to Assignee or its legal representatives any facts known to me/us relating to said improvements, to testify as to the same in any interference or legal proceeding concerned therewith, to execute promptly and deliver to Assignee or its legal representatives upon request any and all papers, instruments, declarations and affidavits required to apply for, obtain, maintain and enforce Letters Patent(s) or other protective right(s) for said improvements throughout the world, and generally to do everything necessary or desirable to vest and perfect title thereto in Assignee.

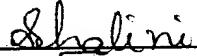
This assignment is binding upon me/us and my/our heirs, successors and personal representatives, and shall inure to the benefit of Assignee, its successors, assigns and nominees.

IN TESTIMONY WHEREOF, I/We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date: 1/13/2000

Signature: 
(Trumpudi Naveen - Inventor)

Witnessed by: Shalini Thondamuthur
(Print Name)

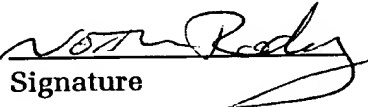
Signature: 

Date: 1/13/2000

Date: 01/03/2000


Signature: 
(Anil M. Murching - Inventor)

Witnessed by: NORTHAN RODRIGUES
(Print Name)

Signature: 

Date: 1/3/2000

Date: 1/30/2000

Signature: 
(Ali Tabatabai - Inventor)

Witnessed by: Zohreh TABATABAI
(Print Name)

Signature: 

Date: 1/30/2000